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COURSE BROCHURE

Passenger Elevator Operation, Rescue and Maintenance Training Course

1 – 5 November 2027
Barcelona

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Registered in the United Kingdom and Saudi Arabia

Passenger Elevator Operation, Rescue and Maintenance Training Course

Ref: 1713_62815 **Date:** 1 – 5 November 2027 **Location:** Barcelona **Fees:** 6200 GBP

Passenger Elevator Operation, Rescue and Maintenance is a 1-week training course for building engineers, lift technicians and facility managers who look after passenger lifts, and each participant builds a lift rescue and maintenance logbook for one installation. Ageing lift stock, taller buildings and rising occupant expectations make safe operation and fast passenger release a daily duty of every estate. The course is delivered by Jupiter Prime Training.

Why Passenger Elevator Operation, Rescue and Maintenance Matters Now

Three forces shape lift care today. Older traction and hydraulic installations stay in service longer, so wear must be read early. Occupants, tenants and insurers now expect trapped passengers to be released quickly and calmly, with every entrapment recorded. Microprocessor controllers change how faults are found. An estate that handles these well keeps cars running and people safe; one that does not faces entrapments, injuries and long outages. The course rests on recognised international lift safety standards and the manufacturer's maintenance instructions, described in general terms.

Who Gains Most from Passenger Elevator Operation, Rescue and Maintenance

- Engineers responsible for a building's lift plant
- Technicians who carry out routine servicing, adjustment and fault finding on lift cars and machinery
- Facility staff who coordinate lift contractors, inspections and service visits
- Duty officers who lead the first response when a car stops between floors
- Supervisors who keep lift records and defect lists

An estate or hospital site that sends its building engineer, duty supervisor and lift contractor liaison together gains a shared release procedure.

Passenger Elevator Operation, Rescue and Maintenance Capabilities

Participants move from naming lift components to releasing passengers safely and keeping trustworthy records.

- Identify traction and hydraulic lift components and their wear signs — repair or replacement decisions
- Apply a safe passenger release procedure for a stalled car — duty officers and occupants
- Test safety gear, overspeed governors and door protective devices — inspection sign-off
- Trace controller and door faults with a structured diagnostic sequence — call-out response
- Specify routine inspection tasks and service intervals — contractor scope and budget holders
- Build maintenance records that support audits and insurers — facility managers

Key Passenger Elevator Operation, Rescue and Maintenance Terms

- Traction lift — a lift whose car is moved by steel ropes or belts running over a driven sheave with a counterweight.
- Hydraulic lift — a lift raised by a ram fed with pressurised oil from a pump unit and lowered through a valve.
- Safety gear — a mechanical device on the car that grips the guide rails and stops the car if it overspeeds.
- Overspeed governor — a speed-sensing pulley and rope that trips the safety gear when the car travels too fast.
- Landing door interlock — a lock and electrical contact preventing car movement unless every landing door is closed and locked.
- Entrapment — any event where passengers are held inside a stopped car and cannot leave without assistance.

Passenger Elevator Operation, Rescue and Maintenance Day by Day

Day 1: Lift Systems and Duty Holder Roles

- Traction Machine, Sheave and Rope Layout — Choosing Inspection Priorities
- Hydraulic Pump Unit, Ram and Valve Block — Oil Leak and Drift Response
- Car, Counterweight and Guide Rail Assembly — Alignment and Ride Quality Checks
- Duty Holder, Contractor and Competent Person Roles — Clear Lines of Responsibility
- Lift Risk Assessment by Installation — Ranking Cars for Attention

Day 2: Safety Gear, Governors and Door Systems

- Instantaneous and Progressive Safety Gear — Test Method Selection
- Overspeed Governor and Tension Pulley — Trip Speed Verification
- Buffers and Final Limit Switches — Terminal Landing Protection Checks
- Door Operator, Interlocks and Light Curtains — Passenger Trap and Strike Prevention
- Safety Circuit Chain Reading — Locating an Open Contact Quickly

Day 3: Safe Passenger Release

- Entrapment Call Handling and Passenger Reassurance — First Five Minutes
- Machine Room Isolation and Lock-Off — Protecting the Rescuer
- Manual Brake Release and Hand Winding — Moving a Traction Car Level
- Hydraulic Manual Lowering Valve — Bringing the Car to a Landing
- Landing Door Emergency Unlocking Key — Controlled Passenger Exit

Day 4: Controllers, Fault Finding and Inspection

- Relay and Microprocessor Controller Logic — Reading Fault Codes Correctly
- Drive and Motor Faults in Variable Frequency Systems — Repair or Escalate
- Structured Fault Finding Sequence — Reducing Repeat Call-Outs
- Routine Inspection Checklist for Car, Shaft and Pit — Defect Grading
- Remote Monitoring and Alarm Communication Units — Faster Response Decisions

Day 5: Practising the Lift Rescue and Maintenance Logbook

- Simulated Entrapment Drill Using Release Steps — Rescue Readiness Review
- Safety Gear and Door Test Records — Evidence for Thorough Examination
- Fault History Trend Review — Planning Component Renewal
- Service Contract Scope and Visit Reports — Contractor Performance Checks
- Completing the Installation Logbook — Handover to the Estate Team

Applying Passenger Elevator Operation, Rescue and Maintenance After the Course

- Run a timed entrapment drill on one traction or hydraulic car using the release steps practised.
- Grade repeat faults from recent call-out reports with the lift contractor and agree the next inspection tasks.

Passenger Elevator Operation, Rescue and Maintenance Questions FAQ

What is passenger elevator operation, rescue and maintenance, and why does it matter now?

It is the daily care of passenger lifts: running them safely, releasing trapped people and keeping parts in working order. Ageing installations and higher occupant expectations make quick, safe passenger release and early fault detection a priority for every building.

Which roles gain most from passenger elevator operation, rescue and maintenance training?

Building engineers, lift technicians, facility coordinators, duty supervisors and the staff who keep lift records gain most.

How does this passenger elevator operation, rescue and maintenance course differ from a general building services course?

It focuses on lifts alone. A general building services course spreads time across heating, cooling and electrical plant instead.

What do you bring back from passenger elevator operation, rescue and maintenance training?

You bring back a completed logbook for one lift installation. It holds the release procedure, test records and a fault history.

Passenger Elevator Operation, Rescue and Maintenance: The Way Forward

The lift rescue and maintenance logbook first informs which car needs attention before the next service visit. Building engineers, duty supervisors and the lift contractor use it during call-outs and inspections. After its first real entrapment or major repair, revisit the release steps and the fault grading.